

DOCKET: CU-5017

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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TITLE: ARTIFICIAL CORUNDUM CRYSTAL

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**AMENDED ABSTRACT**

~~A main object of the present invention is to provide an~~ An artificial corundum crystal which can be put into practical use at low costs, and a process for producing the same. The ~~invention provides an~~ artificial corundum crystal ~~containing~~ contains a seed crystal and ~~having~~ has at least one crystal face selected from the ~~group consisting of a~~ {113} face, a {012} face, a {104} face, a {110} face, a {101} face, a {116} face, a {211} face, a {122} face, a {214} face, a {100} face, a {125} face, a {223} face, a {131} face, and a {312} face. The ~~invention further provides a~~ process for producing ~~[[an]]~~ the artificial corundum crystal, ~~wherein an artificial corundum crystal having a hexagonally dipyramidal shape as its base shape is formed~~ includes forming with a seed crystal by a flux evaporation method of heating a sample containing a raw material and a flux to precipitate a crystal and grow the crystal by use of flux evaporation as a driving force.